

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: Shen et al.**Assignee:** Atwood Mobile Products, Inc.**U.S. Patent No.:** 5,573,648 **Date Issued:** November 12, 1996**Application No.:** 381,718 **Date Filed:** January 31, 1995**Title:** GAS SENSOR BASED ON PROTONIC CONDUCTIVE
MEMBRANES19704 U.S. PTO
10/621999
07/17/03

Mail Stop Reissue
Commissioner for Patents
P.O. Box. 1450
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER FOR REISSUE APPLICATION OF
U.S. PATENT No. 5,573,648**

Dear Sir:

Enclosed for filing please find the following reissue application papers for the
above referenced patent:


- (i) Return Receipt Postcard;
- (ii) Reissue Application Fee Transmittal Form;
- (iii) Power of Attorney or Authorization of Agent Form;
- (iv) Reissue Application Declaration by the Assignee;
- (v) Chart Showing Differences in Claim Language between the Original
Patent Claims and the Presented Reissue Claims;
- (vi) Reissue Application Consent of the Assignee;
- (vii) Certificate Under 37 C.F.R. § 3.73(b);
- (viii) Preliminary Amendment;
- (ix) Copy of Specification, Figures and Claims of U.S. Patent No. 5,573,648;

- (x) Statement Under 37 C.F.R. § 1.178(b); and
- (xi) Certificate of Express Mail.

The Commissioner is hereby authorized to charge all fees or credit overpayments to Deposit Account No. 19-0733.

Respectfully submitted,
Shen et al.

Date: 17 July 2003

By: 
Peter D. McDermott (Reg. No. 29,411)
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REISSUE APPLICATION FEE TRANSMITTAL FORM

Docket Number (Optional)

011361.00064

Claims as Filed - Part 1

Claims in Patent		Number Filed in Reissue Application	(3) Number Extra	Small Entity		Other than a Small Entity	
				Rate	Fee	Rate	Fee
(A) 78	Total Claims (37 CFR 1.16(j))	(B) 88	**** 10 =	x \$ _____ =		or	x \$ 18 = 180
(C) 4	Independent claims (37 CFR 1.16(i))	(D) 9	* 5 =	x \$ _____ =			x \$ 84 = 420
Basic Fee (37 CFR 1.16(h)) \$ _____							\$ 750
Total Filing Fee \$ _____						OR	\$ 1,350

Claims as Amended - Part 2

	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Extra Claims Present	Small Entity		Other than a Small Entity	
					Rate	Fee	Rate	Fee
Total Claims (37 CFR 1.16(j))	***	MINUS	**	* =	x \$ _____ =		x \$ _____ =	
Independent Claims (37 CFR 1.16(i))	***	MINUS	*****	=	x \$ _____ =		x \$ _____ =	
Total Additional Fee \$ _____						OR	\$ _____	

* If the entry in (D) is less than the entry in (C), Write "0" in column 3.

** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space.

*** After any cancellation of claims.

**** If "A" is greater than 20, use (B - A); if "A" is 20 or less, use (B - 20).

***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (C).

☐ Applicant claims small entity status. See 37 CFR 1.27.☐ Please charge Deposit Account No. _____ in the amount of _____.
A duplicate copy of this sheet is enclosed.☒ The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. 19-0733.
A duplicate copy of this sheet is enclosed.☐ A check in the amount of \$ _____ to cover the filing / additional fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Date

17 July 2003

Signature of Applicant, Attorney or Agent of Record



Peter D. McDermott (Reg. No. 29,411)

Typed or printed name

19704 U.S. PTO
10/621999

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MEMBRANES**

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Commissioner for Patents
P.O. Box. 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Dear Sir:

Atwood Mobile Products, Inc., the owner of all right, title and interest to the above-referenced patent, states that it is:


The assignee of the entire, right, title and interest in the patent identified above by virtue of:

(1) An Assignment from the inventors of the patent application/patent identified above to Atwood Industries, Inc. The assignment was duly recorded in the United States Patent and Trademark Office at Reel 007454, Frame 0737 on January 31, 1995; and

(2) The documents attached to this Certificate show that Atwood Industries, Inc. made a capital contribution of all its assets to Atwood RV Products, Inc. The documents attached to this Certificate also show that Atwood RV Products, Inc., through a merger and name change, became Atwood Mobile Products, Inc.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

1 July 2003
Date



David Bovee
Vice President
Dura Automotive Systems, Inc.

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Alexandria, VA 22313-1450

CERTIFICATE OF EXPRESS MAIL

Dear Sir:

Express Mail Label No.: EV323344585US**Date of Deposit:** 17 July 2003

I hereby state that the following:

- (i) Return Receipt Postcard;
- (ii) Reissue Application Transmittal Letter (2 pages);
- (iii) Reissue Application Fee Transmittal Form (1 page in Duplicate);
- (iv) Power of Attorney or Authorization of Agent Form (2 pages);
- (v) Reissue Application Declaration by the Assignee (8 pages);
- (vi) Chart Showing Differences in Claim Language between the Original Patent Claims and the Presented Reissue Claims (395 pages);
- (vii) Reissue Application Consent of the Assignee (1 page);
- (viii) Certificate Under 37 C.F.R. § 3.73(b) (11 pages);
- (ix) Preliminary Amendment (25 pages);
- (x) Copy of Specification, Figures and Claims of U.S. Patent No. 5,573,648 (18 pages);
- (xi) Statement Under 37 C.F.R. § 1.178(b) (2 pages); and
- (xii) This Certificate of Express Mail (2 pages)

*Certificate of Express Mail for
Reissue Application of U.S. Patent No. 5,573,648
Page 1 of 2*

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to Mail Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Rachelle Chery

A handwritten signature in black ink, appearing to read "Rachelle Chery", written over a horizontal line.

Signature of person mailing paper or fee

Addendum

Attachment 1

Gas Sensor Based on Protonic Conductive Membranes